

Mining Low Carbon Commodities and Climate Change Mitigation: Why Renewables Will Turn Mines into Hospitals of the Planet

Mining + Renewables = Mitigation of Climate Change

Low carbon society XXI will imply high polymetallic society, and it deals to high share of renewables and energy storage in the mining and oil industries. Energy intensity due to decreasing ore grade is challenging this industry worldwide.

Renewables reduce power cost and they emerge as one of the best allies to miners, not only in term of power costs but GHG emissions mitigation and Social License fulfillment. We will make a trip to five continents analyzing models and examples of how renewable energies and energy storage are characterizing the new mining of the XXI century. Diamond mines in Canada, copper in Chile, zinc in Peru, aluminum smelting in Iceland, coal in India, platinum in South Africa or gold and quartz sands in Australia.

However, the real challenge doesn't locate intrinsically in the mining facilities but in the people. Miners aren't prepared to become medical doctors of the Planet and renewable engineers aren't preparing as the lawyers for XXI century miners. The real challenge is skilling capacitation for new paradigm. There is a knowledge gap in universities and business schools, in mining training departments or in mining trade unions around the globe. And we need cross this chasm to save the world.

Due to this fact, we will finish analyzing how intense capacitation boot camps, online training and mentoring should become the key to overcoming this knowledge gap in adopting the XXI century new scenario. Time to build low carbon mines and commodities is arriving as well as the moment to trigger to engineers to transform in the Planet's doctors.

With low carbon mining, we will deploy enough renewables to mitigate Climate Change.